Author Index of Volume 76

Ai, Y.H., 65
Alzahrani, A.A., 185

Bagster, D.F., 213
Bernis, A., 79
Bertrand, D., 191
Bevilacqua, P., 89
Boldo, P., 79
Bougeard, L., 191
Bridgwater, J., 317
Briscoe, B.J., 165
Broadbent, C.J., 317
Broodryk, N., 175

Carstensen, J.T., 135
Chao, B.T., 65
Chen, M.M., 65
Chhabra, R.P., 225
Clark, N.N., 331
Cleaver, J.A.S., 15

Deo, M.D., 141
Devaux, M.-F., 191
Dobran, F., 65

Ferrara, G., 89
Fletcher, J.V., 141
Forssberg, E., 247
Fuerstenau, D.W., 253, 263, 271

Gamwo, I.K., 65
Gautam, M., 331
Geldart, D., 175
Geoffroy, J.-M., 135
Gerritsen, A.W., 47
Ghadiri, M., 15
Gidaspow, D., 65
Gonthier, Y., 79
Gudehus, G., 201
Gutsche, O., 253, 263, 271

Hanson, F.V., 141
Hino, T., 57
Hogg, R., 277
Hutchings, I.M., 3, 23

Jańczuk, B., 233

Kamath, S., 277
Kapur, P.C., 253, 263, 271
Kavanagh, P.E., 309
Kawashima, Y., 57
Keningley, S.T., 317
Kerdoncuff, A., 175
Kim, K.T., 291
Kitamura, R., 31
Knight, P., 317
Kruyt, N.P., 109

Lam, K.K., 149
Le Deschault de Monredon, F., 191
Lee, J.H., 291
Li, E., 213
Luckham, P.F., 165
Lyczkowski, R.W., 65

Manbeck, H.B., 277
Matthews, G.P., 95
Meloy, T.P., 89
Morishima, K., 57
Moss, A.K., 95
Munro, J.M., 241

Nathier-Dufour, N., 191
Newton, J.M., 149
Niwa, T., 57
Nolan, G.T., 309
Noor Wali, M.M., 185

Page, N.W., 155, 299
Park, B.S., 125
Parker, D.J., 317
Puri, V.M., 277

Rees, J.E., 221
Ren, S.R., 165
Rolfe, N., 15

Schanz, T., 31
Shipway, P.H., 23
Smith, D.M., 125
Spearing, M.C., 95
Standish, N., 113

Takeuchi, H., 57
Tejchman, J., 201
Thoma, S.G., 125
Thomas, D., 79
Tsardaka, K.D., 221
Turton, R., 331

Vendel, J., 79
Verheijen, P.J.T., 47
Voland, F., 95

Wayne, W.S., 331
Werther, J., 39
Wójcik, W., 233
Wolff, E.H.P., 47
Woodle, G.R., 241

Xi, W., 39

Yousuff, M., 155, 299
Yu, A.B., 113

Zdziennicka, A., 233
Zeng, Y., 247

Subject Index of Volume 76

Adhesion
the influence of the time of application of contact pressure on particle adhesion to a substrate surface, 149
Agglomerate
determination of agglomerate strength distributions Part 4. Analysis of multimodal particle size distributions, 125
Agglomeration
micromeritic characteristics and agglomeration mechanisms in the spherical crystallization of bucillamine by the spherical agglomeration and the emulsion solvent diffusion methods, 57
Aluminate
attrition of an aluminate-based synthetic sorbent for regenerative sulphur capture from flue gas in a fluidised bed, 47
Attrition
impact attrition of sodium carbonate monohydrate crystals, 15
attrition of brittle spheres by fracture under compression and impact loading, 23
jet attrition of catalyst particles in gas fluidized beds, 39
attrition of an aluminate-based synthetic sorbent for regenerative sulphur capture from flue gas in a fluidised bed, 47

Bubbling
validation of computed solids hydrodynamics and pressure oscillations in a bubbling atmospheric fluidized bed, 65
pressure field measurement in a bubbling fluidized bed, 331
Bucillamine
micromeritic characteristics and agglomeration mechanisms in the spherical crystallization of bucillamine by the spherical agglomeration and the emulsion solvent diffusion methods, 57

Catalyst
jet attrition of catalyst particles in gas fluidized beds, 39
Chalcocite
determination of surface-free energy components of synthetic chalcocite from contact angle measurements, 233
Clay
the settling of spheres in clay suspensions, 165
Comminution
liberation of voids by comminution — its influence on apparent density of porous materials, 89
comminution of single particles in a rigidly-mounted roll mill
Part 1: Mill torque model and energy investment, 253
Part 2: Product size distribution and energy utilization, 263
Part 3: Particle interaction and energy dissipation, 271
Compaction
die stress and internal friction during quasi-static and dynamic powder compaction, 299
Compression
attrition of brittle spheres by fracture under compression and impact loading, 23
Computer simulation
computer simulation of random packings of spheres with log-normal distributions, 309
Contact angle
determination of surface-free energy components of synthetic chalcocite from contact angle measurements, 233
Cosserat
silo-music and silo-quake experiments and a numerical Cosserat approach, 201
Creep
apparent viscosity of particulate solids determined using creep analysis, 221
Crushing
a mechanical model for granular mixtures including particle crushing, 31
application of vibration signals to monitoring crushing parameters, 247
Crystallization
micromeritic characteristics and agglomeration mechanisms in the spherical crystallization of bucillamine by the spherical agglomeration and the emulsion solvent diffusion methods, 57
Crystals
impact attrition of sodium carbonate monohydrate crystals, 15
Cyclone diplegs
studies on the flow of solids down cyclone diplegs, 175

Density
liberation of voids by comminution — its influence on apparent density of porous materials, 89
Deposit
cross flow filtration of gases: Prediction of the mass of deposit in the steady state, 79
Die stress
die stress and internal friction during quasi-static and dynamic powder compaction, 299
Diffraction
comparison of sieving and laser diffraction for the particle size measurements of raw materials used in foodstuff, 191
Diffusion
micromeritic characteristics and agglomeration mechanisms in the spherical crystallization of bucillamine by the spherical agglomeration and the emulsion solvent diffusion methods, 57

Energy
determination of surface-free energy components of synthetic chalcocite from contact angle measurements, 233

comminution of single particles in a rigidly-mounted roll mill
Part 1: Mill torque model and energy investment, 253
Part 2: Product size distribution and energy utilization, 263
Part 3: Particle interaction and energy dissipation, 271

Filtration
cross flow filtration of gases: Prediction of the mass of deposit in the steady state, 79
Flow
results of Jenike's (1987) radial stress field theory for the flow of granular materials in conical hoppers: flow regimes and flow factors, 109
studies on the flow of solids down cyclone diplegs, 175
flow properties of powders using four testers–measurement, comparison and assessment, 277
Flue gas
attrition of an aluminate-based synthetic sorbent for regenerative sulphur capture from flue gas in a fluidised bed, 47
Fluidization
fluidization of a multi-sized Group B sand at reduced pressure, 141
Fluidization velocity
estimation of the minimum fluidization velocity for beds of spherical particles fluidized by power law liquids, 225
Fluidized beds
jet attrition of catalyst particles in gas fluidized beds, 39
attrition of an aluminate-based synthetic sorbent for regenerative sulphur capture from flue gas in a fluidised bed, 47
validation of computed solids hydrodynamics and pressure oscillations in a bubbling atmospheric fluidized bed, 65
a study of pressure drop fluctuations in a gas–solids fluidized bed, 185
pressure field measurement in a bubbling fluidized bed, 331
Foodstuff
comparison of sieving and laser diffraction for the particle size measurements of raw materials used in foodstuff, 191
Fracture
attrition of brittle spheres by fracture under compression and impact loading, 23
Friction
particle material, morphology and load effects on internal friction in powders, 155
die stress and internal friction during quasi-static and dynamic powder compaction, 299

Granular materials
results of Jenike's (1987) radial stress field theory for the flow of granular materials in conical hoppers: flow regimes and flow factors, 109
three-dimensional models of heaped granular materials, 213
Granular mixtures
a mechanical model for granular mixtures including particle crushing, 31

Hoppers
results of Jenike's (1987) radial stress field theory for the flow of granular materials in conical hoppers: flow regimes and flow factors, 109

Hot pressing
hot pressing of metal powders, 291
Hydrodynamics
validation of computed solids hydrodynamics and pressure oscillations in a bubbling atmospheric fluidized bed, 65

Impact
impact attrition of sodium carbonate monohydrate crystals, 15
attrition of brittle spheres by fracture under compression and impact loading, 23
Interaction
comminution of single particles in a rigidly-mounted roll mill
Part 3: Particle interaction and energy dissipation, 271

Jenike
results of Jenike's (1987) radial stress field theory for the flow of granular materials in conical hoppers: flow regimes and flow factors, 109

Kiln
particle motion and mixing in a rotary kiln, 241

Load effects
particle material, morphology and load effects on internal friction in powders, 155

Mercury intrusion
network calculation of mercury intrusion and absolute permeability in sandstone and other porous media, 95
Metal powders
hot pressing of metal powders, 291
Mill
comminution of single particles in a rigidly-mounted roll mill
Part 1: Mill torque model and energy investment, 253
Part 2: Product size distribution and energy utilization, 263
Part 3: Particle interaction and energy dissipation, 271
Mixer
a phenomenological study of a batch mixer using a positron camera, 317
Mixing
particle motion and mixing in a rotary kiln, 241
Models
a mechanical model for granular mixtures including particle crushing, 31
three-dimensional models of heaped granular materials, 213
comminution of single particles in a rigidly-mounted roll mill
Part 1: Mill torque model and energy investment, 253
Morphology
particle material, morphology and load effects on internal friction in powders, 155
Motion
particle motion and mixing in a rotary kiln, 241
Multimodal particles
determination of agglomerate strength distributions
Part 4. Analysis of multimodal particle size distributions, 125

Packings
a study of the packing of particles with a mixture size distribution, 113
computer simulation of random packings of spheres with log-normal distributions, 309
Particulate solids
apparent viscosity of particulate solids determined using creep analysis, 221
Permeability
network calculation of mercury intrusion and absolute permeability in sandstone and other porous media, 95
Porous materials
liberation of voids by comminution — its influence on apparent density of porous materials, 89
Porous media
network calculation of mercury intrusion and absolute permeability in sandstone and other porous media, 95
Positron camera
a phenomenological study of a batch mixer using a positron camera, 317
Power law liquids
estimation of the minimum fluidization velocity for beds of spherical particles fluidized by power law liquids, 225
Pressure
fluidization of a multi-sized Group B sand at reduced pressure, 141
the influence of the time of application of contact pressure on particle adhesion to a substrate surface, 149
a study of pressure drop fluctuations in a gas–solids fluidized bed, 185
pressure field measurement in a bubbling fluidized bed, 331
Pressure oscillations
validation of computed solids hydrodynamics and pressure oscillations in a bubbling atmospheric fluidized bed, 65

Sand
fluidization of a multi-sized Group B sand at reduced pressure, 141
Sandstone
network calculation of mercury intrusion and absolute permeability in sandstone and other porous media, 95
Settling
the settling of spheres in clay suspensions, 165
Sieving
comparison of sieving and laser diffraction for the particle size measurements of raw materials used in foodstuff, 191
Silo
silo-music and silo-quake experiments and a numerical Cosserat approach, 201
Size distributions
a study of the packing of particles with a mixture size distribution, 113
determination of agglomerate strength distributions Part 4. Analysis of multimodal particle size distributions, 125
comminution of single particles in a rigidly-mounted roll mill Part 2: Product size distribution and energy utilization, 263
Size measurements
comparison of sieving and laser diffraction for the particle size measurements of raw materials used in foodstuff, 191
Sodium carbonate monohydrate
impact attrition of sodium carbonate monohydrate crystals, 15
Spheres
the settling of spheres in clay suspensions, 165
computer simulation of random packings of spheres with log-normal distributions, 309
Spherical particles
estimation of the minimum fluidization velocity for beds of spherical particles fluidized by power law liquids, 225
Strength distributions
determination of agglomerate strength distributions Part 4. Analysis of multimodal particle size distributions, 125
Surface
the influence of the time of application of contact pressure on particle adhesion to a substrate surface, 149
determination of surface-free energy components of synthetic chalcocite from contact angle measurements, 233
Suspensions
the settling of spheres in clay suspensions, 165

Vibration signals
application of vibration signals to monitoring crushing parameters, 247
Viscosity
apparent viscosity of particulate solids determined using creep analysis, 221
Voids
liberation of voids by comminution — its influence on apparent density of porous materials, 89

Warren–Springs equation
modified Warren–Springs equation, 135
Wear
mechanisms of wear in powder technology: a review, 3